



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

1/2

TRANSMITTAL FORM (to be used for all correspondence after initial filing)		Application Number	10/705,668
		Filing Date	November 10, 2003
		First Named Inventor	Nelson et al.
		Group Art Unit	1725
		Examiner Name	
Total Number of Pages in This Submission (including this sheet)	9	Attorney Docket No.	1219.BYU.CN

ENCLOSURES (check all that apply)			
<input type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Appeal Communication: <input type="checkbox"/> Appeal Notice <input type="checkbox"/> Appeal Brief <input type="checkbox"/> Reply Brief <input type="checkbox"/> Assignment with Cover Sheet <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Check in the amount of \$____ <input type="checkbox"/> Credit card authorization in the amount of \$____ <input type="checkbox"/> Declaration & Power of Attorney <input type="checkbox"/> Drawings ____ sheets <input type="checkbox"/> Formal <input type="checkbox"/> Informal	<input type="checkbox"/> Extension of Time Request ____ month <input type="checkbox"/> Fee Calculation Table <input checked="" type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Form 1449 <input type="checkbox"/> Copies of IDS References <input type="checkbox"/> Issue Fee Transmittal & Advance Order	<input type="checkbox"/> Maintenance Fee Transmittal ____ year <input type="checkbox"/> Missing Parts Response <input type="checkbox"/> Notification of Change of Attorney Address & Docket Number <input checked="" type="checkbox"/> Return Postcard <input type="checkbox"/> Revocation & Power of Attorney <input type="checkbox"/> Status Inquiry <input type="checkbox"/> Other:	Remarks
SIGNATURE OF APPLICANT, ATTORNEY OR AGENT			
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Signature		Date	10/5/2004
CERTIFICATE OF MAILING UNDER 37 CFR § 1.8			
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, on the date indicated below, in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.			
Typed or Printed Name	David W. O'Bryant		
Signature		Date	10/5/2004



Patent

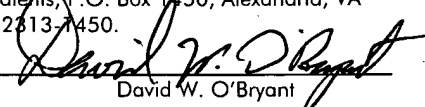
THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Nelson et al.
SERIAL NO.: 10/705,668
FILING DATE: November 10, 2003
TITLE: FRICTION STIR WELDING OF
METAL MATRIX COMPOSITES,
FERROUS ALLOYS, NON-
FERROUS ALLOYS, AND
SUPERALLOYS USING A
SUPERABRASIVE TOOL

ART UNIT: 1725
EXAMINER:
DOCKET NO.: 1219.BYU.CN

CERTIFICATE OF MAILING
UNDER 37 C.F.R. § 1.8

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail, postage prepaid, under 37 C.F.R. § 1.8 on the date indicated below and is addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-7450.


David W. O'Bryant

10/5/2004
Date of Deposit

INFORMATION DISCLOSURE STATEMENT UNDER 37 C.F.R. § 1.97(b)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.98(a)(1), enclosed is Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). Applicant respectfully submits that this Information Disclosure Statement is filed, pursuant to 37 C.F.R. § 1.97 (b), within three months of the filing date of the application, within three months of the date of entry of the national stage set forth in § 1.491 or before the mailing date of a first Office action on the merits. Applicant requests that the references cited in the enclosed form PTO-1449 be made of record in the above-captioned application. While no representation is made that any of the references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record believes that the references listed, together with any other references which may have been previously submitted or listed, are the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no reference which is more relevant to the claimed invention (taken in its entirety) has been knowingly withheld.

In compliance with 37 C.F.R. § 1.98(d), the Applicant identifies the following application which is relied on in the above-captioned application for an earlier effective filing date under 35 U.S.C. § 120 and in which one or more Information Disclosure Statements were submitted that comply with 37 C.F.R. § 1.98(a)-(c). Copies of all PTO-1449 and PTO-892 forms that were made of record in the previous application identified below are enclosed herewith for reference, but copies of the references cited therein are not provided as permitted by 37 C.F.R. § 1.98(d).

TITLE

FRICITION STIR WELDING OF METAL MATRIX COMPOSITES, FERROUS ALLOYS,
NON-FERROUS ALLOYS, AND SUPERALLOYS USING A SUPERABRASIVE TOOL

SERIAL NO.

FILING DATE

09/851,597

May 8, 2001

Please charge any additional fees or credit any overpayment to Deposit Account No.
50-0881.

DATED this 5 day of October, 2004.

Respectfully submitted,



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LIST OF PRIOR ART CITED BY APPLICANT

OCT 12 2004

Sheet 1 of 3

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	5,611,479	March 18, 1997	Rosen			
	AB	5,697,511	Dec. 16, 1997	Bampton			
	AC	5,713,507	Feb. 3, 1998	Holt et al.			
	AD	5,769,306	June 23, 1998	Colligan			
	AE	5,794,835	August 18, 1998	Colligan et al.			
	AF	5,813,592	Sep. 29, 1998	Midling et al.			
	AG	5,971,247	Oct. 26, 1999	Gentry			
	AH	5,971,252	Oct. 26, 1999	Rosen et al.			
	AI	5,975,406	Nov. 2, 1999	Mahoney et al.			
	AJ	6,045,027	April 4, 2000	Rosen et al.			
	AK	6,045,028	April 4, 2000	Martin et al.			
	AL	6,050,474	April 18, 2000	Aota et al.			
	AM	6,050,475	April 18, 2000	Kinton et al.			
	AN	6,051,325	April 18, 2000	Talwar et al.			
	AO	6,070,784	June 6, 2000	Holt et al.			
	AP	6,168,066 B1	Jan. 2, 2001	Arbegast			
	AQ	6,168,067 B1	Jan. 2, 2001	Waldron et al.			
	AR	6,173,880 B1	Jan. 16, 2001	Ding et al.			
	AS	6,193,137 B1	Feb. 27, 2001	Ezumi et al.			

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO	
	AT	EP 0 797 043 A2	Sep. 24, 1997	EP				
	AU	EP 0 810 054 A1	Dec. 3, 1997	EP				
	AV	EP 0 810 055 B1	Dec. 22, 1999	EP				
	AW	EP 0 810 056 A3	Dec. 2, 1998	EP				
	AX	EP 0 833 097 A2	April 1, 1998	EP				
	AY	EP 0 867 254 A1	Sep. 30, 1998	EP				
	AZ	EP 0 888 843 A1	Jan. 7, 1999	EP				
	BA	EP 0 893 189 A2	Jan. 27, 1999	EP				
	BB	EP 0 893 190 A2	Jan. 27, 1999	EP				
	BC	EP 0 925 964 A	June 30, 1999	EP				

LIST OF PRIOR ART CITED BY APPLICANT

Sheet 2 of 3

	BD	EP 0 928 659 A1	July 14, 1999	EP			
	BE	EP 0 947 280 A1	Oct. 6, 1999	EP			
	BF	EP 0 968 788 A2	Jan. 5, 2000	EP			
	BG	EP 0 972 605 A2	Jan. 19, 2000	EP			
	BH	EP 0 985 483 A2	March 15, 2000	EP			
	BI	EP 0 992 314 A2	April 12, 2000	EP			
	BJ	EP 1 029 627 A1	August 23, 2000	EP			
	BK	EP 1 046 453 A2	Oct. 25, 2000	EP			
	BL	EP 1 048 390 A2	Nov. 2, 2000	EP			
	BM	EP 1 055 478 A1	Nov. 29, 2000	EP			
	BN	EP 1 057 572 A2	Dec. 6, 2000	EP			
	BO	EP 1 057 573 A2	Dec. 6, 2000	EP			
	BP	EP 1 057 574 A2	Dec. 6, 2000	EP			
	BQ	EP 1 057 575 A2	Dec. 6, 2000	EP			
	BR	EP 1 057 576 A2	Dec. 12, 2000	EP			
	BS	GB 2 306 366 A	May 7, 1997	GB			
	BT	WO 00/02698	Jan. 20, 2000	EP			
	BU	WO 00/02699	Jan. 20, 2000	US			
	BV	WO 00/02704	Jan. 20, 2000	US			
	BW	WO 00/03818	Jan. 27, 2000	AU			
	BX	WO 00/56497	Sep. 28, 2000	DE			
	BY	WO 93/10935	June 10, 1993	GB			
	BZ	WO 97/15462	May 1, 1997	NO			
	CA	WO 97/48517	Dec. 24, 1997	SE			
	CB	WO 98/13167	April 2, 1998	SE			
	CC	WO 98/45080	Oct. 15, 1998	SE			
	CD	WO 98/51441	Nov. 19, 1998	SE			
	CE	WO 98/58759	Dec. 30, 1998	GB			
	CF	WO 99/32254	July 1, 1999	SE			
	CG	WO 99/32255	July 1, 1999	US			
	CH	WO 99/33594	July 8, 1999	US			
	CI	WO 99/34951	July 15, 1999	SE			
	CJ	WO 99/39861	August 12, 1999	NO			
	CK	WO 99/52669	Oct. 21, 1999	GB			

PTO-1449

U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICE

Application Number

09/851,597

Filing Date

May 8, 2001

First Named Inventor

Nelson et al

Group Art Unit

1725

Examiner Name

Unknown

Attorney Docket

1219.BYU.NP

LIST OF PRIOR ART CITED BY APPLICANT

Sheet 3 of 3

	CL	WO 99/54081	Oct. 28, 1999	GB			
	CM	WO 99/58288	Nov. 18, 1999	US			
	CN	WO 99/65637	Dec. 23, 1999	JP			

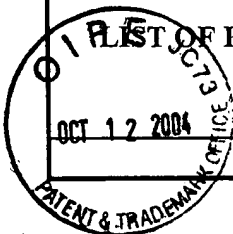
OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Application Number	09/851,597
Filing Date	May 8, 2001
First Named Inventor	Nelson et al.
Group Art Unit	1725
Examiner Name	
Attorney Docket	1219.BYU.NP



LIST OF PRIOR ART CITED BY APPLICANT

Sheet 1 of 1

U.S. PATENT DOCUMENTS

EXAMINER INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	AA	6,206,268	Mar. 27, 2001	Mahoney			
	AB	6,138,895	Oct. 31, 2000	Oelgoetz et al.			
	AC	6,053,391	April 25, 2000	Heideman et al.			
	AD	5,829,664	Nov. 3, 1998	Spinella et al.			
	AE	5,811,755	Sept. 22, 1998	McGee			
	AF	5,718,366	Feb. 17, 1998	Colligan			
	AG	5,460,317	Oct. 24, 1995	Thomas et al.			
	AH	4,144,110	Mar. 13, 1979	Luc			
	AI						
	AJ						
	AK						

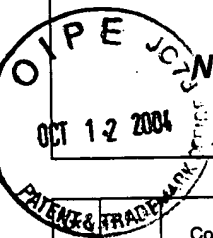
FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							
	AO							
	AP							

OTHER PRIOR ART (Including Author, Title, Pertinent Pages, Etc.)

	AR		
	AS		
	AT		
EXAMINER			
DATE CONSIDERED			

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**Notice of References Cited**

Application/Control No.

09/851,597

Applicant(s)/Patent Under
Reexamination
NELSON ET AL.

Examiner

Zidia Pittman

Art Unit

1725

Page 1 of 1

U.S. PATENT DOCUMENTS

		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,794,835	08-1998	Colligan et al.	228/13
	B	US-			
	C	US-			
	D	US-			
	E	US-			
	F	US-			
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	H	US-			
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	J	US-			
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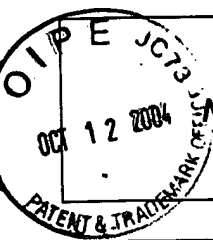
FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
	U	
	V	
	W	
	X	

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Dates in MM-YYYY format are publication dates. Classifications may be US or foreign.

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Application/Control No.

09/851,597

Applicant(s)/Patent Under
Reexamination
NELSON ET AL.

Examiner

Zidia Pittman

Art Unit

1725

Page 1 of 1

U.S. PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Name	Classification
	A	US-5,758,999	06-1998	Geise, Samuel C.	409/231
	B	US-			
	C	US-			
	D	US-			
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	M	US-			

FOREIGN PATENT DOCUMENTS

*		Document Number Country Code-Number-Kind Code	Date MM-YYYY	Country	Name	Classification
	N					
	O					
	P					
	Q					
	R					
	S					
	T					

NON-PATENT DOCUMENTS

*		Include as applicable: Author, Title Date, Publisher, Edition or Volume, Pertinent Pages)
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	V	
	W	
	X	

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